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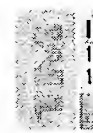
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Pages:420 - 429
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**3 Hybrid FDD/SDD-WCDMA system architecture: joint power control : space diversity for demand access channels***Wong, W.W.S.; Sousa, E.S.;*Communications, 2000. ICC 2000. 2000 IEEE International Conference on , Volume: 1 , 18-22 June 2000  
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# [1 How to solve the current memory access and data transfer bottlenecks: at the processor architecture or at the compiler level](#)

Francky Catthoor, Nikil D. Dutt, Christoforos E. Kozyrakis

January 2000 **Proceedings of the conference on Design, automation and test in Europe**Full text available:  pdf(92.68[KB](#)  [Publisher Site](#)Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

26 **Adaptive prefetching and storage reorganization in a log-structured storage system**

*Chye Lin Chee; Hongjun Lu; Hong Tang; Ramamoorthy, C.V.;*

Knowledge and Data Engineering, IEEE Transactions on , Volume: 10 , Issue: 5 , Sept.-Oct. 1998

Pages:824 - 838

[\[Abstract\]](#) [\[PDF Full-Text \(600 KB\)\]](#) **IEEE JNL**

Data and memory optimization techniques for embedded systems

P. R. Panda, F. Catthoor, N. D. Dutt, K. Danckaert, E. Brockmeyer, C. Kulkarni, A. Vandercappelle, P. G. Kjeldsberg

April 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 6 Issue 2

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We present a survey of the state-of-the-art techniques used in performing data and memory-related optimizations in embedded systems. The optimizations are targeted directly or indirectly at the memory subsystem, and impact one or more out of three important cost metrics: area, performance, and power dissipation of the resulting implementation. We first examine architecture-independent optimizations in the form of code transformations. We next cover a broad spectrum of optimizati ...

**Keywords:** DRAM, SRAM, address generation, allocation, architecture exploration, code transformation, data cache, data optimization, high-level synthesis, memory architecture customization, memory power dissipation, register file, size estimation, survey